



10/521,691

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: OKOCHI et al. Examiner: unknown  
Serial No.: 10/521,691 Group Art Unit: unknown  
Filed: 18 January 2005 Docket: 10873.1604USWO  
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND  
BIOMARKERS AND REAGENTS USING THE SAME

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on 19 May 2005.

By: 

Name: Heidi McCarty

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(c))

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of the first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

Applicants respectfully bring to the Examiner's attention that four of the references listed on the enclosed Form 1449 were cited in an International Search Report, enclosed herewith. Since the International Search Report is in English, no English translation of the listed foreign references are required, pursuant to MPEP §609(A)3.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

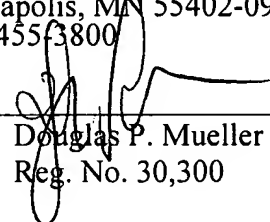
Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

HAMRE, SCHUMANN, MUELLER &  
LARSON, P.C.  
P.O. Box 2902-0902  
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(612) 455-3800

Dated: 19 May 2005

By: \_\_\_\_\_

  
Douglas P. Mueller  
Reg. No. 30,300

DPM:hjm

<b>FORM 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b> (Use several sheets if necessary)	Docket Number: 10873.1604USWO	Application Number: 10/521,691
	Applicant: OKOCHI et al.	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		OKOCHI et al. "Biology of Alzheimer's disease and presenilin". <i>Bunshi Seishin Igaku</i> , Vol. 1, No. 3, pp. 232-241 (2001).					
		KAGEYAMA et al. "Notch pathway in neural development". <i>Tanpakushitsu Kakusan Koso</i> , Vol. 45, No. 3, pp. 221-226 (2000).					
		FELDMEN et al. "A carboxy-terminal deletion mutant of Notch1 accelerates lymphoid oncogenesis in E2A-PBX1 transgenic mice". <i>Blood</i> , Vol. 96, No. 5, pp. 1906-1913 (Sept. 2000).					
		SCHROETER et al. "Notch-1 signaling requires ligand-induced proteolytic release of intracellular domain". <i>Letters to Nature</i> , Vol. 393, pp. 382-386 (May 1998).					
		WILD-BODE et al. "Intracellular generation and accumulation of amyloid $\beta$ -peptide terminating at amino acid 42". <i>The Journal of Biological Chemistry</i> , Vol. 272, No. 26, pp. 16085-16088 (June 1997).					
		OKOCHI et al. "A loss of function mutant of the presenilin homologue SEL-12 undergoes aberrant endoproteolysis in <i>Caenorhabditis elegans</i> and increases A $\beta$ 42 generation in human cells". <i>The Journal of Biological Chemistry</i> , Vol. 275, No. 52, pp. 40925-40932 (Dec. 2000).					
		KULIC et al. "Separation of presenilin function in amyloid $\beta$ -peptide generation and endoproteolysis of notch". <i>Proc. National Academy Sciences, USA</i> , Vol. 97, No. 11, pp. 5913-5918 (May 2000).					
		WOLFE et al. "Two transmembrane aspartates in presenilin-1 required for presenilin endoproteolysis and $\gamma$ -secretase activity". <i>Letters to Nature</i> , Vol. 398, pp. 513-517 (April 1999).					
		SASTRE et al. "Presenilin-dependent $\gamma$ -secretase processing of $\beta$ -amyloid precursor protein at a site corresponding to the S3 cleavage of notch". <i>EMBO Reports</i> , Vol. 2, , No. 9, pp. 835-841 (2001).					
		OKOCHI et al. "Presenilins mediate a dual intramembranous $\gamma$ -secretase cleavage of Notch-1". <i>The EMBO Journal</i> , Vol. 21, No. 20, pp. 5408-5416 (2002).					
		MERLOS-SUAREX et al. "Pro-tumor necrosis factor- $\alpha$ processing activity is tightly controlled by a component that does not affect notch processing". <i>The Journal of Biological Chemistry</i> , Vol. 273, No. 38, pp. 24955-24962 (Sept. 1998).					
		SCHLONDORFF et al. "Metalloprotease-disintegrins: modular proteins capable of promoting cell-cell interactions and triggering signals by protein-ectodomain shedding". <i>Journal of Cell Science</i> , Vol. 112, pp. 3603-3617 (1999).					

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.	

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		CHAN et al. "Roles for proteolysis and trafficking in notch maturation and signal transduction". <i>Cell</i> , Vol. 94, pp. 423-426 (Aug. 1998).
		BROU et al. "A novel proteolytic cleavage involved in notch signaling: The role of the disintegrin-metalloprotease TACE". <i>Molecular Cell</i> , Vol. 5, pp. 206-217 (2000).



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